**Sasidhar Danturti**

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**Summary:**

* 19+ years of IT experience as an Applied Data Scientist, Machine Learning Engineer, and Software Developer.
* Operationalized multiple Machine Learning solutions by leading the teams and stakeholders all the way from MVP to Production
* Built trust and confidence in the ML Solutions by delivering continuous and incremental value to the business outcomes.
* Extensive experience in Financial Services, Telecom and Retail industries.
* **Obtained Machine Learning Specialist Certification from AWS**

**Education:**

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| **MS Data Science from Indian Institute of Technology - Hyderabad, India** | 2015-2017 |
| **Bachelor of Engineering (Electronics and Communication) from Andhra University, India** | 1998-2002 |

**Experience**

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| **Suncorp Group** **(Sep 2021 – Till Date)****Title: Sr. Data Scientist** | Technology Stack: **Domino Data Lab, Redshift, Python , Databricks, Streamlit, Posit , AWS Stack – Textract, S3, Lambda, LLMs, Langchain and LlamaIndex, Databricks** |
| * Introduced and proliferated the use of open-sourced models to solve a variety of business problems in Information Extraction from unstructured data sources like PDF documents, Emails and Free form text fields like Risk Descriptions and Case notes by scaling the POCs/MVPs to full scale production.
* Built text extraction pipelines using custom solutions using AWS Textract, OCR with Tesseract and LLMs like LayoutLM
* Currently building the foundational framework on using the LLMs across the business functions. This was made possible by demonstrating the possible use cases of LLMs by building POCS on call transcript analysis and document question answering.
* Productionised document classification models for the Recoveries and Settlement teams.
* Built custom solutions to chat with the knowledge documents by using the RAG framework.
* Showcased the ML teams capabilities by building demo applications to maintain a health pipeline of work for the data science team.
* Facilitated hackathons, team wide events and training sessions.
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| **HCL Australia** **(Mar 2021 – Sep 2021)****Title: Lead Data Scientist** | Technology Stack: **Azure Data Factory, ADLS, Logic Apps, Power BI, SQL Server** |
| * Setting up the architecture in developing a reporting solution for the enterprise.
* Responsible for liaising with business stake holders to understand the requirements, design a solution.
* Responsible for the delivery of the solutions by working with the offshore teams.
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| **IcareNSW: Sydney****(Sep 2019 – Mar 2021)****Title: Sr. Data Scientist** | Technology Stack: **Databricks, AWS Services (Sagemaker, Lambda, Step functions, AWS Batch, ECR), QLIKSense, Bitbucket, Python, PowerBI** |
| * Responsible for handling projects related to triaging claims at various stages of their life cycle. This involves enriching the data from various sources including unstructured case notes using **Natural Language Processing** to build **Language Models** to improve the Return-to-Work Rates.
* Built solutions using **NLP** to extract data from invoices that are in PDF and Word formats.
* Built models that could explain the reasons behind the predictions.
* Responsible for architecting the Production Pipeline for the Dynamic Triage and Initial Triage models on AWS.
* Responsible for setting up the best practices for executing a Data Science project.
* Engage with the stakeholders like the business owners, change managers to validate the existing approaches and to efficiently move the solutions to production.
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| **NodApp Pty Ltd: Sydney** **(Sep 2018 – July 2019)****Title: Data Scientist** | Technology Stack: **Python, scikit-learn, Docker, Kubernetes, Kafka, GCP, AWS, Flask, Elasticsearch, Kibana, GATE, Bitbucket, Stanford CoreNLP** |
| * Responsible for speeding up the **document parser** by 10X by optimizing the code and scaling up the infrastructure using **Kafka, Docker, and Kubernetes**
* Responsible for building models for document classification, entity recognition, intent identification, and topic modelling
* Migrated the infrastructure and the solution from GCP to AWS to unify the technology stack across the organisation and resolve network security issues effectively.
* Built pipelines in Bitbucket for continuous integration of the code.
* Engage with the stakeholders like the business owners, product owners, software engineers to validate the existing approaches and to explore the opportunities to improve the product through AI.
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| **Vodafone India****(Feb 2018 – Aug 2018)****Title: General Manager – Data Science** | Technology Stack: **Python, scikit-learn, Dask, Netezza, SQL, Docker, git, FlyTxt** |
| * Responsible for formulating the business problem of stopping the customer churn in a highly premium suit of products called “Unlimited Plans”
* Extensive Stakeholder management at every step of the solutioning process to ensure that the direction of the solution is right and to understand and mitigate any integration risks.
* Created an end-to-end analytical solution to identify the high-risk customers for better targeting.
* Automated the entire solution of data extraction, data pre-processing, model development, model scoring and uploading the predictions to a campaign management tool just with the commodity hardware.
* Engaged the Campaign management team to perform the A/B testing to measure the effectiveness of the campaigns that are ran using the predictions.
* Managed and engaged with external vendors, alliances and partners required to assist with data gathering and designing the solution
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| **Synerzip Softech: Pune****(Sep 2015 – Feb 2018)****Role: Data Scientist** | Technology Stack: **Scala, SparkML, Python, R, Cassandra, Kafka, Akka, Mesos, Chronos, Rasa NLU** |
| * Formulated Analytical use cases like Out-of-Stock Prediction, Assortment Optimization, Customer Segmentation, Market Basket Analysis to demonstrate the Platforms capabilities.
* Developed generic Machine Learning Pipelines in Spark that can be configured to execute a variety of Machine learning tasks that are to be orchestrated by a workflow engine.
* Assisted engineers in building a chatbot with Natural language processing tasks like Entity recognition and intent identification.
* Scaled the POC’s done to a production level solution using the Big Data technologies like Spark, Hadoop, Cassandra, Kafka, Akka.
* Developed a solution to extract entities from an order using Text Mining techniques and Neural Networks for incremental learning.
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**Experience as a Software Developer**

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| Organisation | Duration | Tech Stack |
| CDK Global, Hyderabad | Mar 2013 – Sep 2015 | C#, ASP.net, Microsoft SQL Server, AngualJs, Bootstrap, Titanium Appcelerator |
| Symphony Teleca Corporation  | Mar 2011 – Feb 2013 | **C**#, ASP.net, SQL Server 2000, QlikView |
| EF Information Systems  | June 2009 – Feb 2011 | C#, ASP.net, SQL Server 2000, SSRS |
| Satyam Computers ltd  | Feb 2007 – May 2009 | ASP.net, SQL Server 2000 |
| Infotech Enterprises ltd  | Oct 2003 – Feb 2007 | VB.net, VB6, ASP, SQL Server 2000, ArcGIS, MapInfo, MapBasic, Maxterme |